

FIG. 1

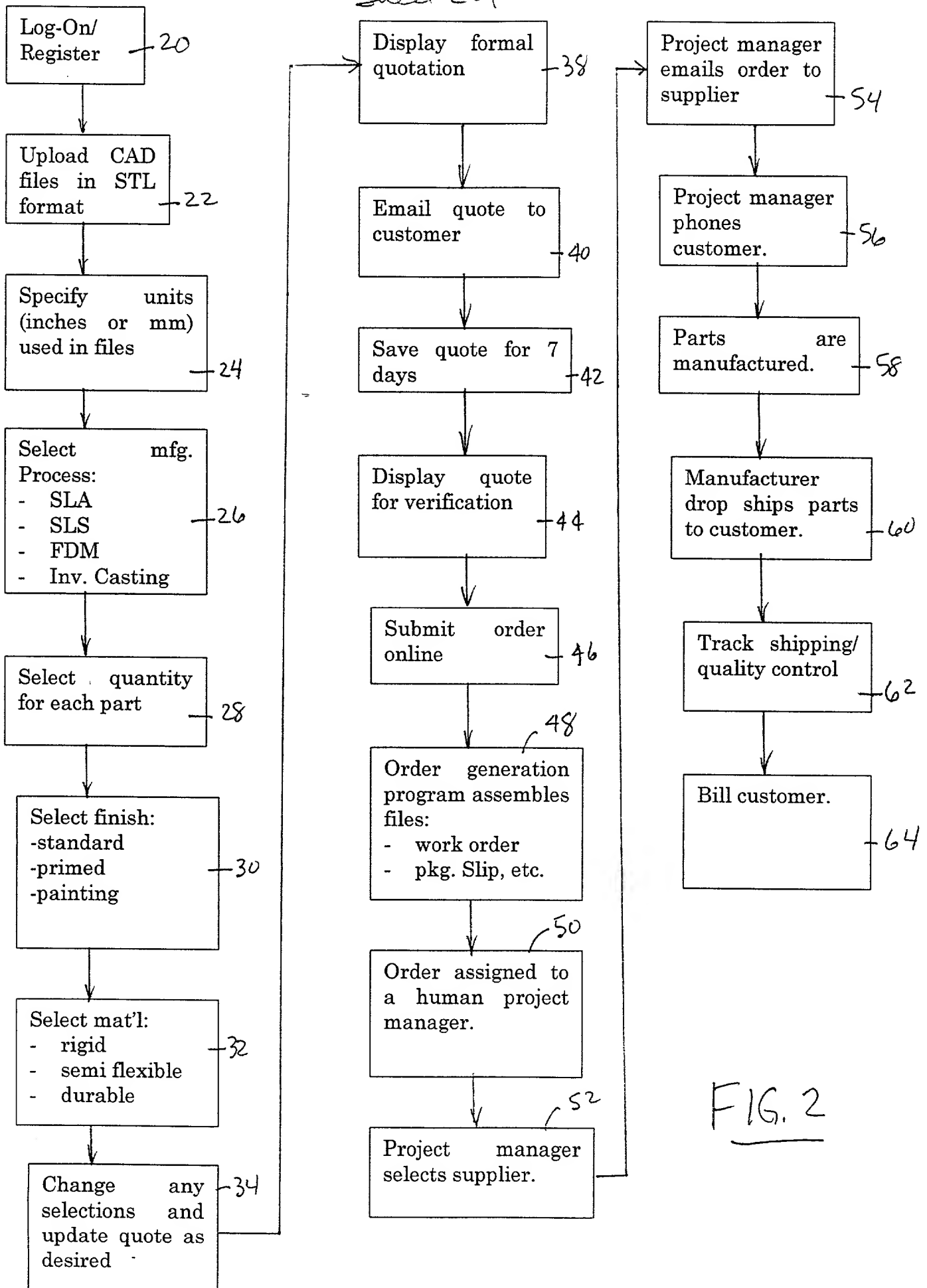


FIG. 2

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Quickparts.com. Putting Instant in Custom Manufactured Parts - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://www.quickparts.com/quickquote/upload.asp

uickparts.com
Putting Instant in Custom Manufactured Parts

Instant Quotes For Quick Parts

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HOME Saturday, November 25, 2000

Upload STL Files For QuickQuote

STEP ONE:
Click the "Browse" button to select the file to upload.

Browse...

STEP TWO:
Click the "Add a File" button.

+ Add a File

STEP THREE:
Repeat Steps 1 and 2 to select additional files for upload.

STEP FOUR:
Click the "Upload Files" button to begin the QuickQuote process or click "Reset" to start over.

Upload Files **Reset Form**

If you are having trouble uploading from this page, [click here](#).

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FIG.3

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Quickquote
User Login
Services
FAQ
Quality Control
Delivery Procedures
Customer Testimonials

QuickQuote Options

You have selected these files for processing:

Datapart D.stl	Datapart V.stl
----------------	----------------

Select Units

☒ Inches ☐ Millimeters

Select the type of process to be performed

Rapid Prototypes:
☒ SLA ☐ SLS ☐ FDM

Pre-Production:
☐ Investment Casting Patterns

Click to begin the Quickquote process

[Create QuickQuote](#)

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Internet

FIG. 4

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- User Login
- Services
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- Quality Control
- Delivery Procedures
- Customer Testimonials

QuickQuote Project Worksheet for SLA

*Click the Part Name for a dynamic 3D view of the part. All units in inches.
You must have the latest version of the Java Virtual Machine to view your part.

Parts To Quote							
Part Name*	Qty	Vol	X	Y	Z	GFI	OPT
Datapart V.stl	1	4.83	6.54	2.68	1.21	Yes	Yes
Datapart D.stl	1	2.24	3.70	3.22	0.75	Yes	Yes

[Update Quantity](#)

Finish Options

☒ Standard ☐ Primed ☐ Painted: # of colors:

[Update Finish Options](#)

Material Options

☒ Rigid (SL 5195) ☐ Semi-Flexible (SOMOS 8100)
☐ Durable (SL 7540)

[Update Material](#)

Enter comments, colors or special instructions.

[Update Comments](#)

[Buy Your Parts!](#) [Save Project](#)

[Print QuickQuote](#) [Email QuickQuote](#)

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FIG. 5

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Quickparts.com Formal Quotation - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://www.quickparts.com/cgi-bin/quote.dll

**quickparts.com**

5825 Glenridge Drive
Bldg 2, Suite 107
Atlanta, GA 30328
877-521-8683
831-401-2492 (Fax)

Formal Quotation

Quote Code: 15661 November 25, 2000

Customer Information

Company Contact: Mark Mackie Phone: 404-303-6612
Company Name: Quickparts.com Fax: 831-401-2492
Email: mmackie@quickparts.com

Process	Part Name	Qty	Quote	Total
SLA	Datapart D.stl	3		
SLA	Datapart V.stl	5		
			\$ 1335	\$ 1335

Additional Information:
Terms Net 30 days
Delivery Standard
Finish Primed
Material SL 7540

Notes:
Please orient DatapartD with internal features facing up.

Done Internet

FIG. 6

```

graph TD
    A1[A1: Input of part Volume, X, Y, Z, Surface Area, Material, Quantity] --> A2[A2: Minimize part height]
    A2 --> A3{A3: Parts fit on equipment?}
    A3 -- YES --> A5[A5: Determine platform area required by each part]
    A3 -- NO --> A4[A4: Error Message]
    A5 --> A6{A6: Area > 400 for any part?}
    A6 -- YES --> A7[A7: Error Message]
    A6 -- NO --> A8{A8: Will build fit in a SLA-2500? A/B ≤ 1}
    A8 -- YES --> A9{A9: Are all X ≤ 10.25  
Are all Y ≤ 10.25}
    A8 -- NO --> A10{A10: Will build fit in a SLA-5000? A/C ≤ 1}
    A9 -- YES --> A11{A11: Are all X ≤ 20  
Are all Y ≤ 20}
    A9 -- NO --> A10
    A11 -- YES --> A15[A15: $ = ((Σ(V500(Vn)+H500(Zn)+C500)500+ (V250(Vn)+H250(Zn)+C250)+FSLA+MPCSLA))(CDR) ]
    A11 -- NO --> A12[A12: Error Message]
    A10 -- YES --> A15
    A10 -- NO --> A13[A13: Place Parts on Platform  
•Order parts from largest area to least  
•Add parts until maximum area ≤ 400  
•Calculate Volume and Max Z for that Build.]
    A13 --> A14{A14: More parts from Buildset?}
    A14 -- YES --> A8
    A14 -- NO --> A15
  
```

$A = \sum((X_n=0.1)(Y_n+0.1))$
 $B = 10.25 * 10.25 = 105$
 $C = 20 * 20 = 400$
 $V_{250}, H_{250}, C_{250}, V_{500}, H_{500}$
 C_{500} = Adjustable Variables
 F_{SLA} = Finish Rate
 MPC_{SLA} = Variable Rate that is a function of the number of parts
 CDR = Customer Discount Rate

Fig. 7

SLS Pricing Methodology

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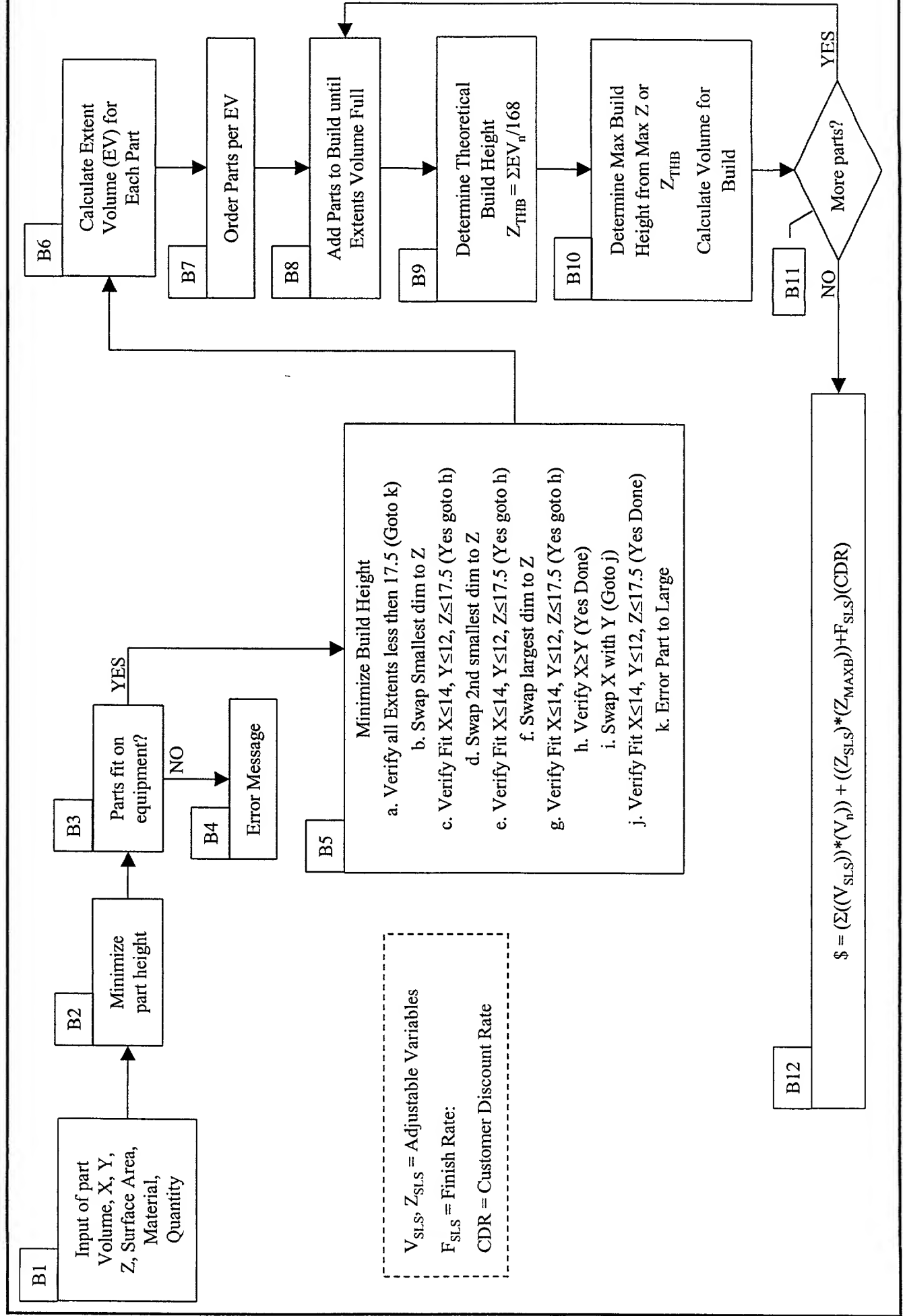
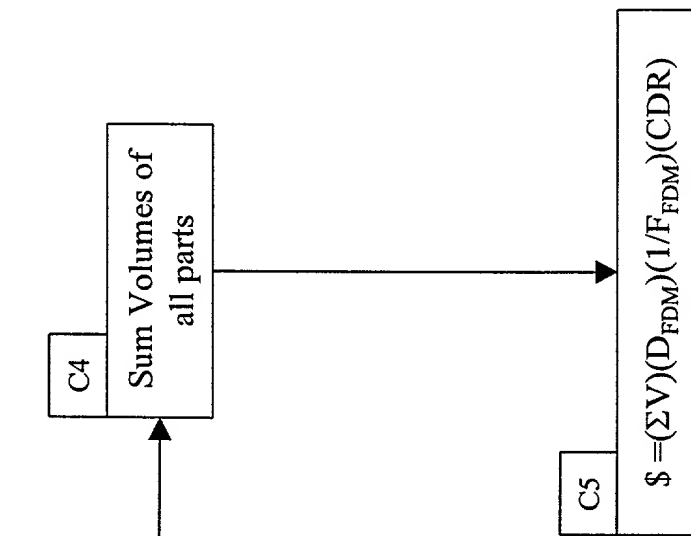


FIG. 8



D_{FDM} = Adjustable Variable
 F_{FDM} = Finish Rate
 CDR = Customer Discount Rate

FIG. 9.

RTV Silicone Tooling and Polyurethane Part Pricing Methodology

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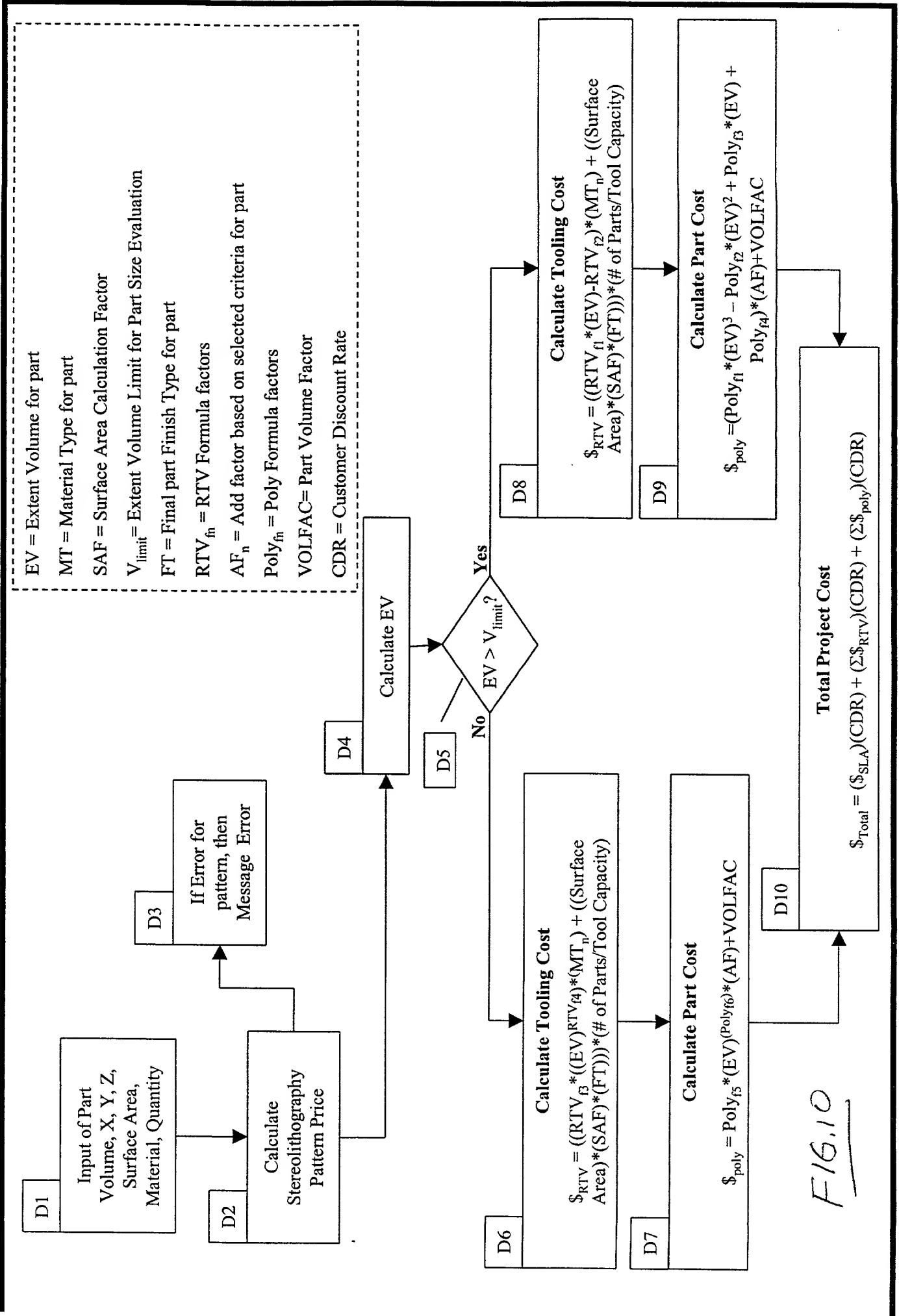


FIG. 10

Injection Molded Tooling and Parts Pricing Methodology

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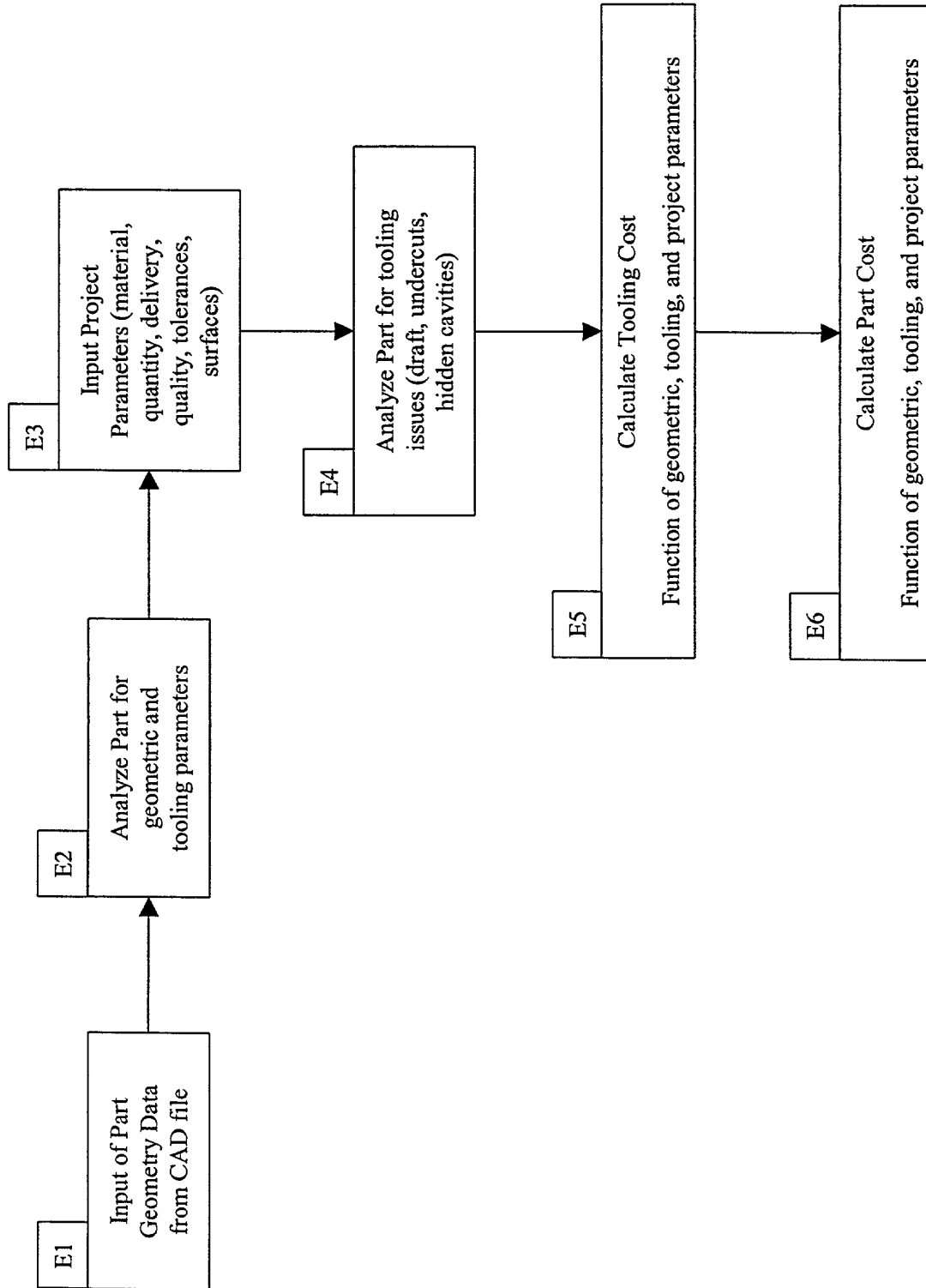


FIG. 11